

Light (pseudo)scalars lurking undetected? Some suggestions on mass reconstruction

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There are non-minimal Higgs scenarios where one may still have light spin-zero particles consistently with the present data. An example is a Type-X two-Higgs doublet scenario, where one can have a neutral pseudoscalar as light as 50 GeV or less, and a neutral scalar as well as a charged scalar in the range of 200 GeV. Some suggestions for their reconstruction are discussed.

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